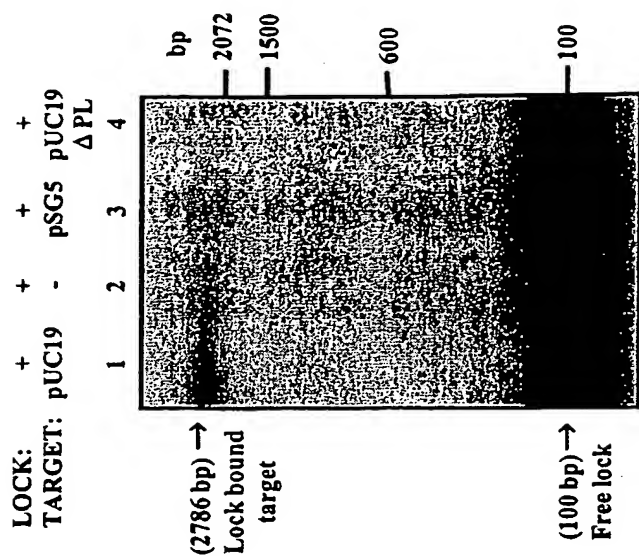
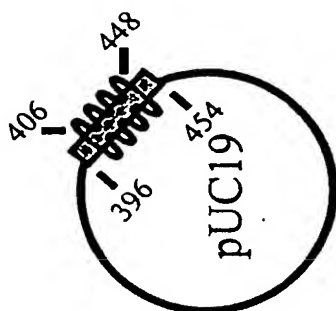


Figure 1



b



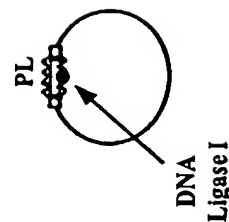
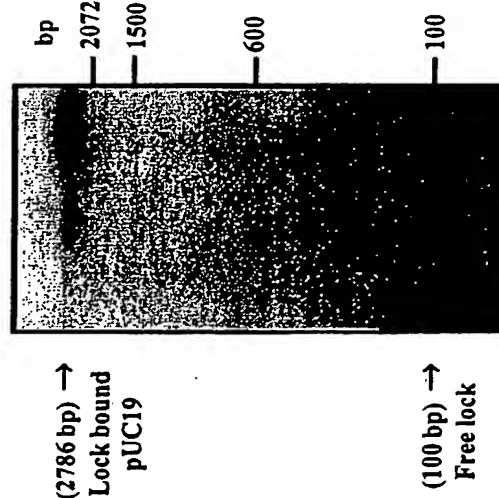
a

DNA Ligase

d

LOCK: + + + + +
pUC19: - - - - -
DNA Ligase: + + + + +

1 2 3



c

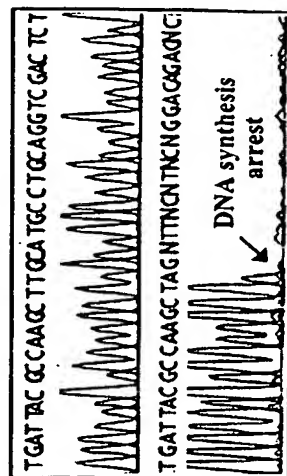
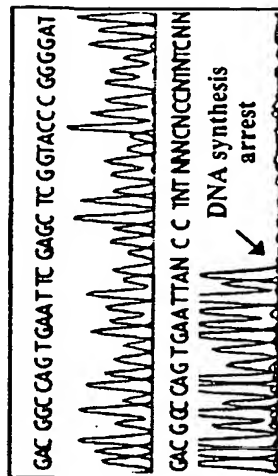
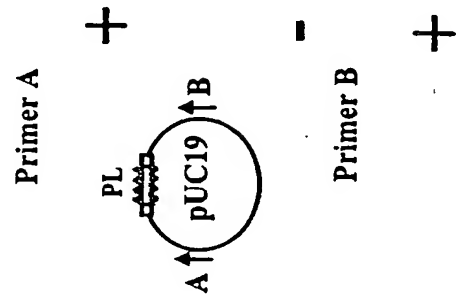


Figure 2A-2D

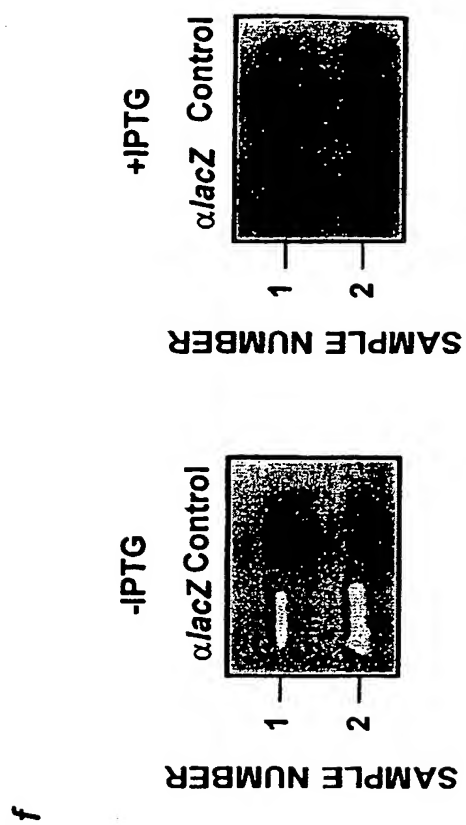
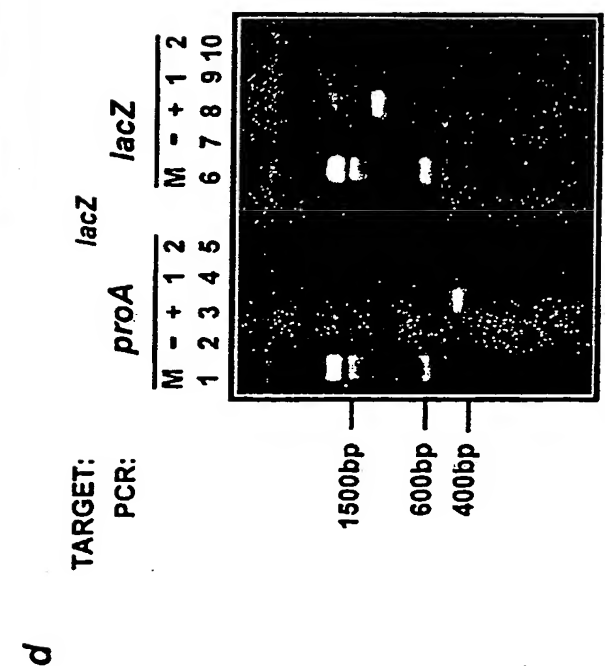
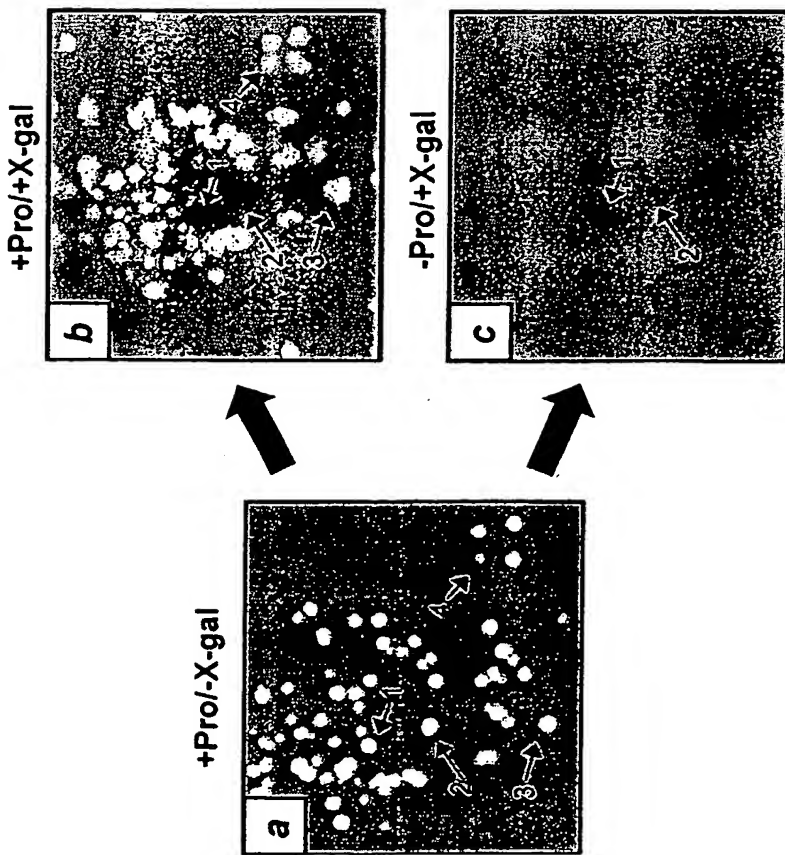
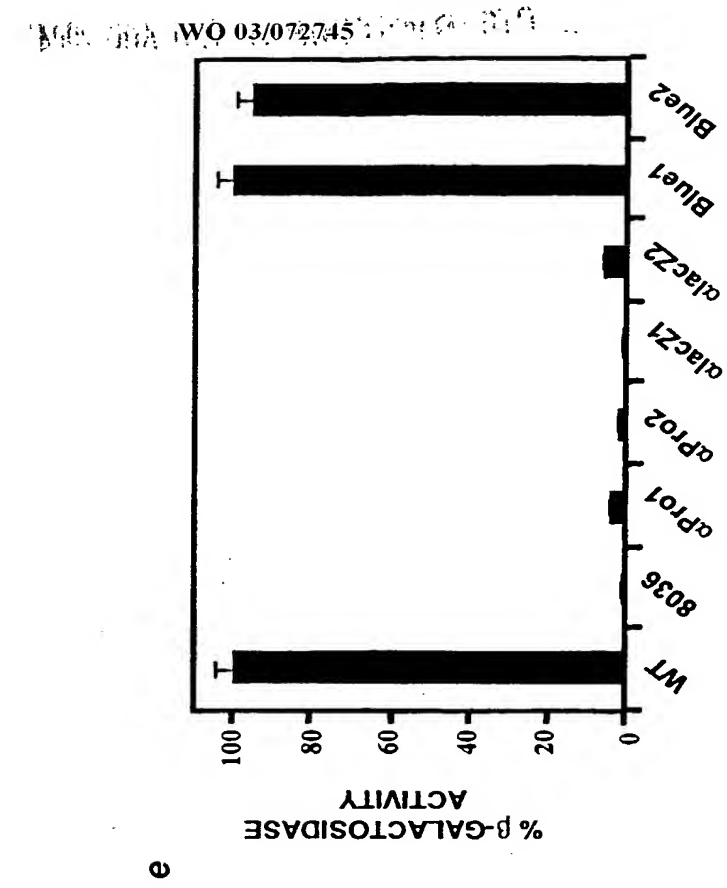


Figure 3A-3F



Figure 4A-4F

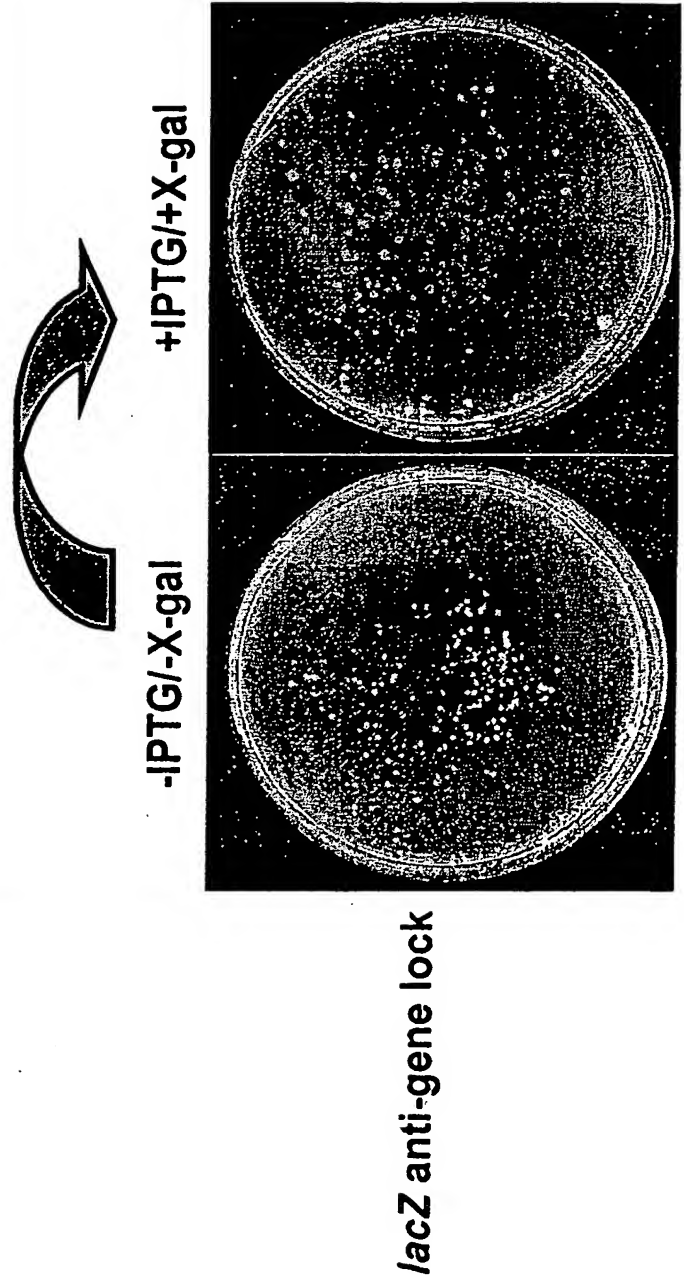
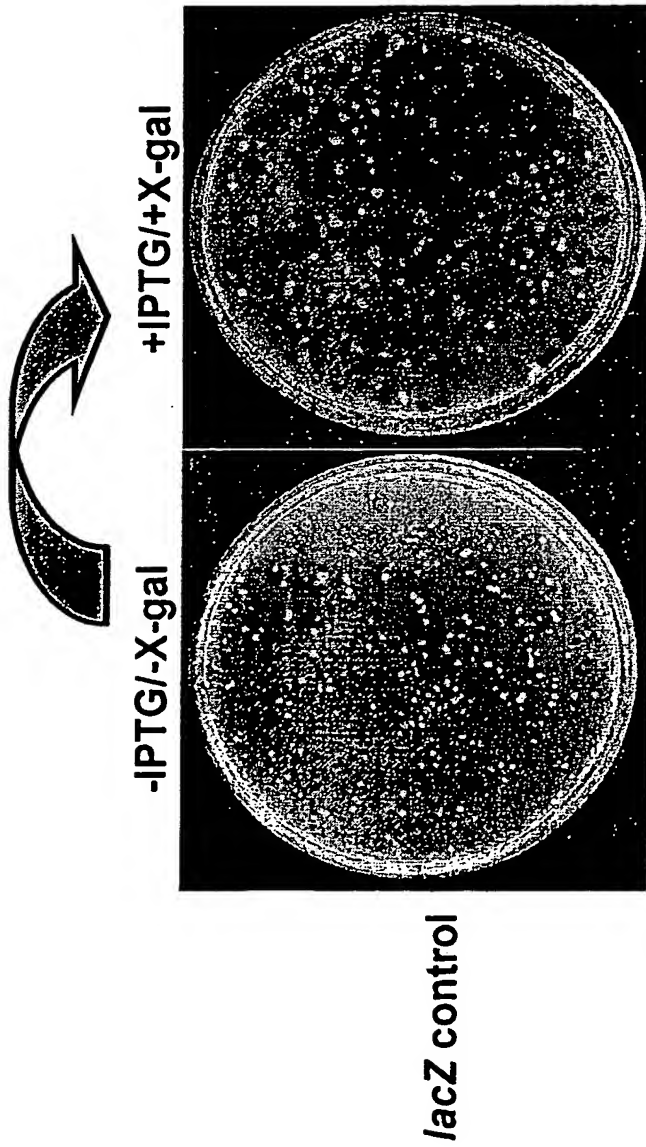


Figure 5

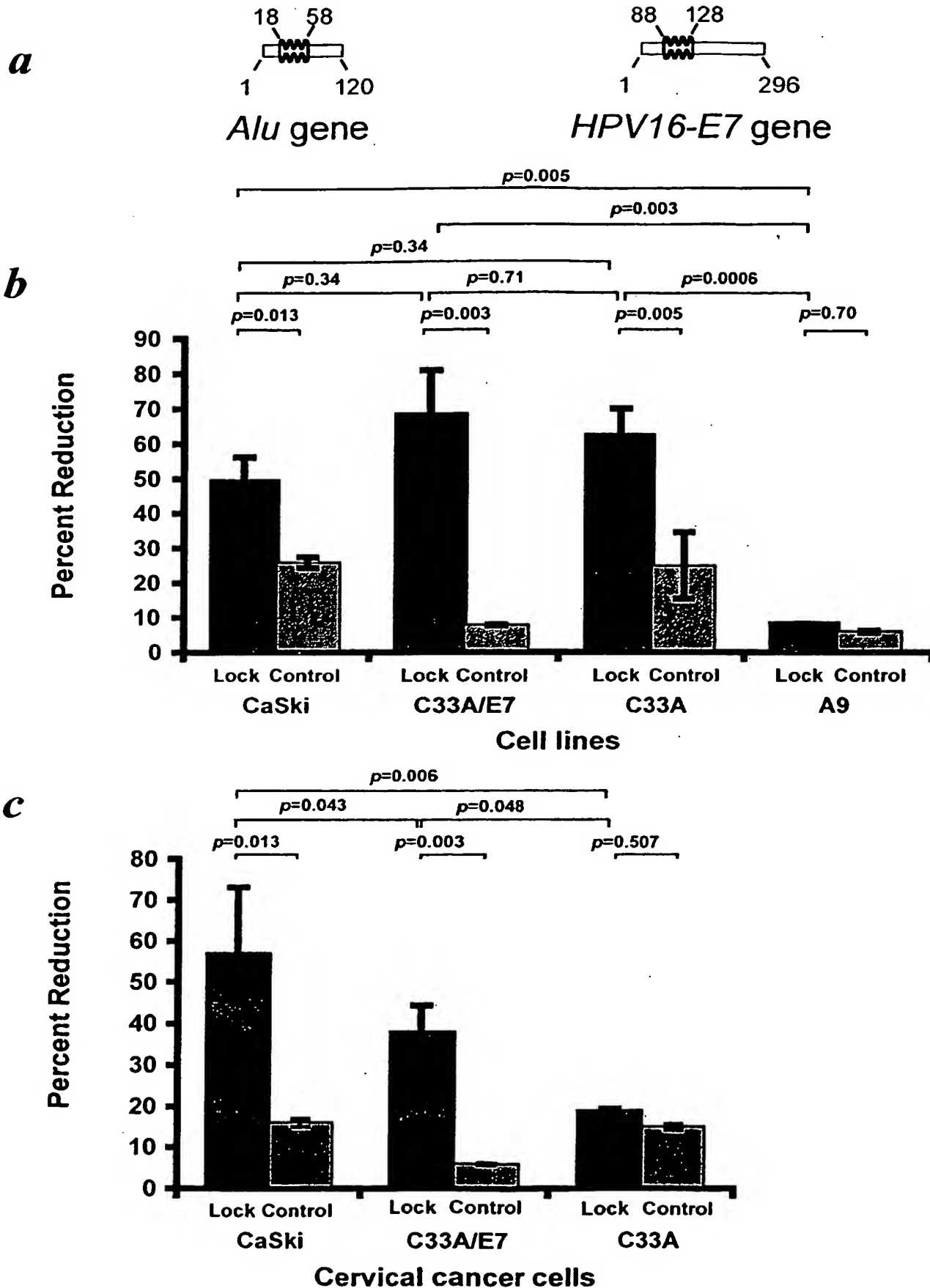
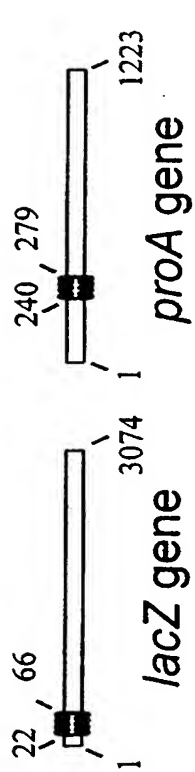


Figure 6A-6C

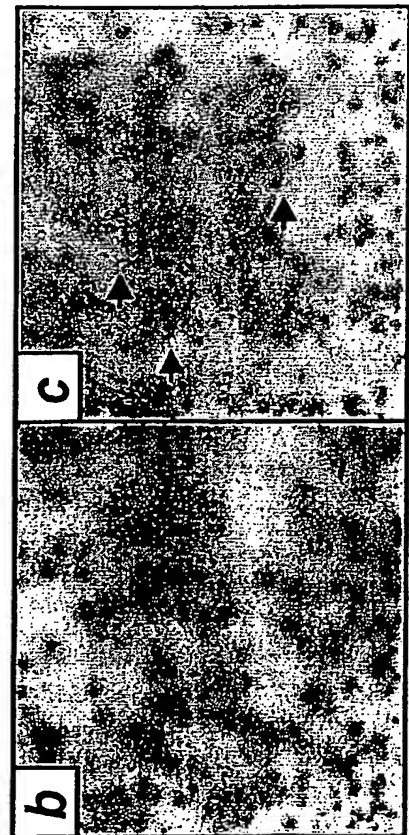
f



a



lacZ control lacZ anti-gene lock



proA control proA anti-gene lock

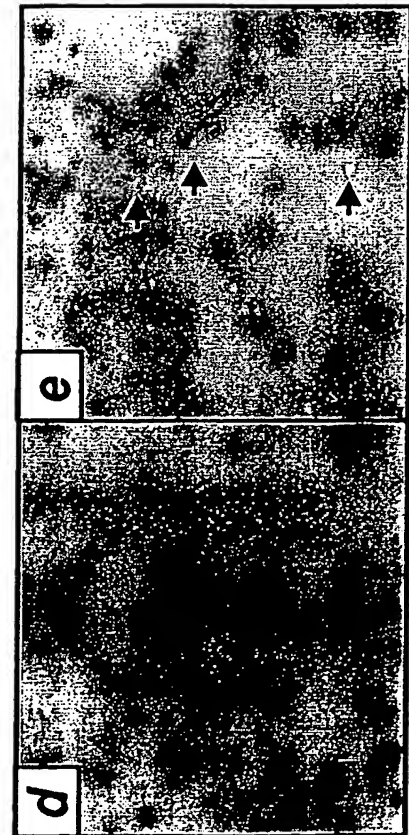


Figure 7A-7F